

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065630008-1

SERGEYEV, N.P.; RYABOV, V.N., inzhener, retsenzent; ZVEGINTSEVA, K.V.
inzhener, redaktor; GOLOSIN, S.Ya., inzhener, redaktor;
MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[Resistance welding; a welder's manual] Kontakt'naya svarka:
Pamiatka dlia svarshchika. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroitel'noi lit-ry, 1955. 91 p. (MLRA 8:10)
(Electric welding)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065630008-1"

BRODSKIY, A.Ya.; ZVEGINTSEVA, K.V., inzhener, redaktor; GRUSHINSKAYA, G.M.,
redaktor; POPOVA, S.N., tekhnicheskij redaktor

[Argon-arc welding using tungsten electrodes] Argono-dugovaia
svarka vol'framovym elektrodom. Moskva, Gos.nauchno-tehn. izd-vo
mashinostroit. lit-ry, 1956. 395 p.
(Electric welding) (MIRA 9:3)

SERGEEV, Nikolay Petrovich; NEYONSON, Moisey Samoilovich; ZHARKOV, A.P.,
inzh., retsenzent; ZEMEL'SKAYA, K.V., inzh., red.; STEPANOVICH, N.S., red. izd-va; ML'KIN, V.D., tekhn. red.

[Electric resistance welding] Elektricheskaya kontaktnaya svarka.
Izd. 2., perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1958. 286 p. (MIRA 11:10)

(Electric welding)

CHERNYSHEVA, Yelena Vasil'yevna; VOSNCHANOV, K.P., inzh., retezentsent; TSEGOEL'SKIY, V.L., inzh., retsezent; ZVEREVTSEVA, K.V., inzh., red.; STEPANCHENKO, N.S., red. Izd-vo; EL'KIND, V.D., tekhn. red.

[Current sources for the electric welding arc] Istochniki pitanija svarochnoi dugi. Moskva, Gos. nauchno-tehn. izd-vo mashinostroit, lit-ry, 1958. 112 p. (MIRA 11:10)

(Electric welding)

ZVEZDINTSEVA, K. V.

LAPIDUS, Vladimir Arkad'yevich; KRYUKOVSKIY, N.N., inzhener, retsenzent;
ZVEZDINTSEVA, K.V., inzhener, redaktor; GRUSHINSKAYA, G.M.,
izdatel'skiy redaktor; MODNIK, B.I., tekhnicheskiy redaktor

[Electrodes for built-up welding] Elektrody dlia naplavki.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1957. 231 p. (MLR 10:6)
(Electrodes)

ZVEGINSEVA K.V.

YELISTRATOV, Petr Savel'yevich; IVANOV, B.G., kand.tekhn.nauk, retsenzent;
ZVEGINSEVA, K.V., inzhener, red.; MEZHOOVA, V.A., red.izdatel'stva;
TIKHANOV, A.Ya., tekhn.red.

[Metallurgical principles of iron welding] Metallurgicheeskie
osnovy svarki chuguna. Moskva, Gos.izuchno-tekhn.izd-vo mashino-
stroit.lit-ry, 1957. 154 p. (MIRA 10:12)

(Welding)

L V E G I N I S E V H , R . V .

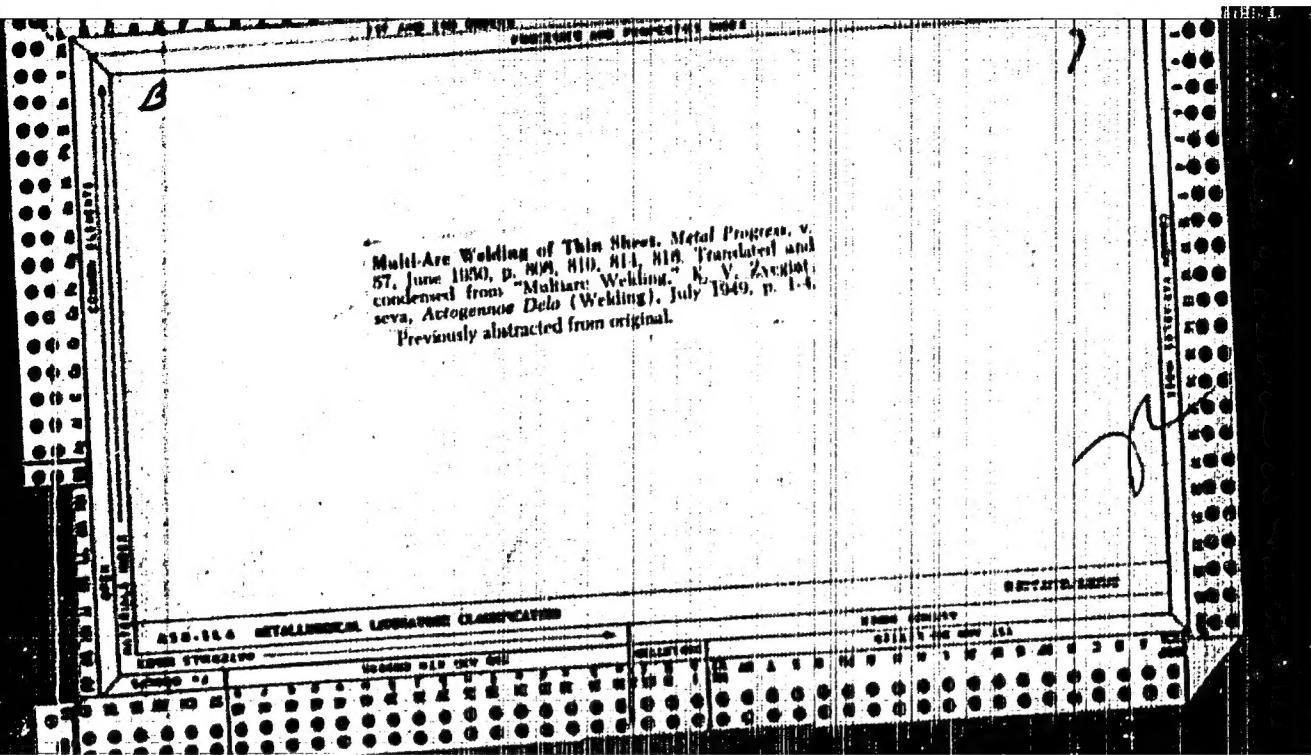
LYUBAVSKIY, K.V., prof., doktor tekhn.nauk, otvetstvennyy red.; ZNEGINTSEVA,
K.V., inzh., red.; KATLER, S., kand.tekhn.nauk, red.; TYUL'KOV, M.D.,
kand.tekhn.nauk, red.; PETROV, A.V., kand.tekhn.nauk, red.

[Gas-shielded arc welding; papers at the All-Union Scientific
Conference on Gas-Shielded Welding] Voprosy dugovoi svarki v
zashchitnykh gazakh; doklady k Vsesoiuznomu nauchno-tehnicheskому
soveshchaniyu po svarke v zashchitnykh gazakh. Moskva, 1957. 250 p.
(MIRA 11:5)

1. Nauchno-tehnicheskoye obshchestvo mashinostroitel'noy promyshlen-
nosti. Sektsiya svarki metallov.
(Electric welding) (Protective atmospheres)

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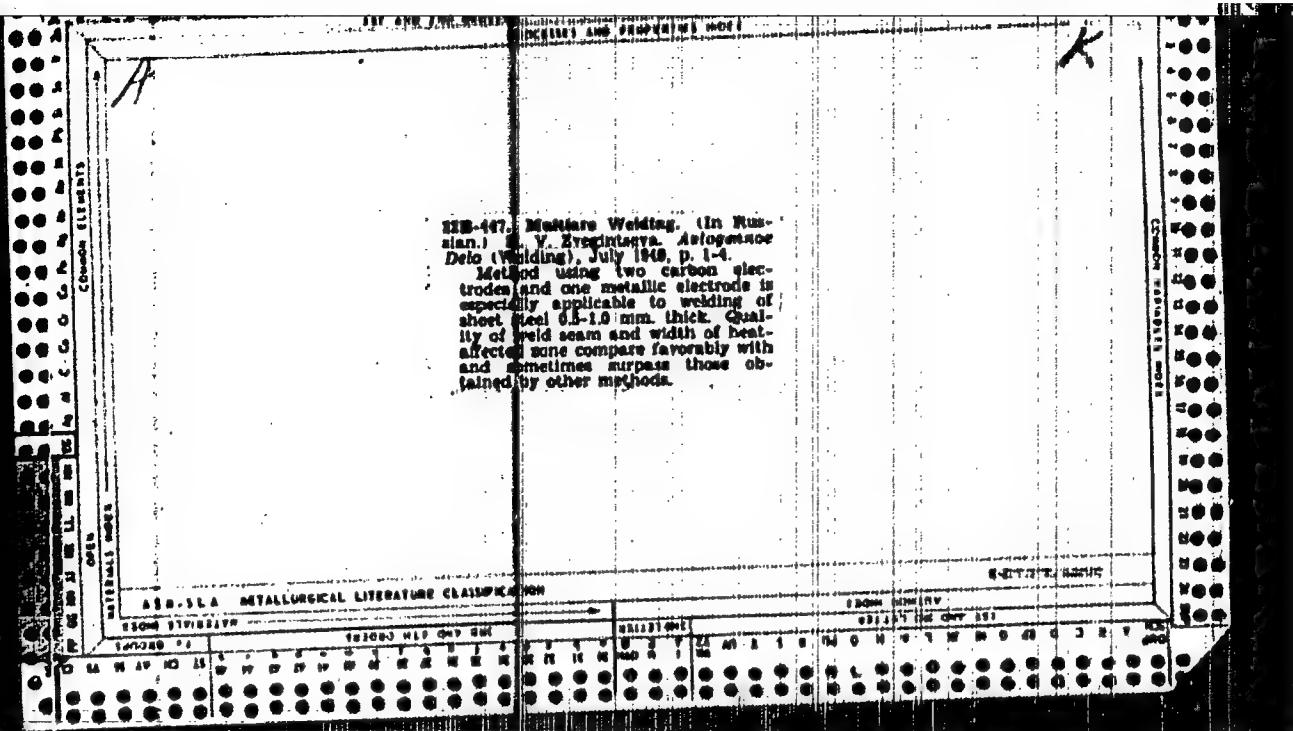
CIA-RDP86-00513R002065630008-1"

VLADIMIRSKIY, T.A.; PAL'KOVICH, A.S.; ZVERGINTSEVA, K.V., inzhener, retsentent;
SHTERLING, S.Z., dotsent, redaktor; MODEL', B.I., tekhnicheskie redak-
tor; BUTYLKIN, A.G., tekhnicheskiy redaktor

[Equipment and experience in welding under gas pressure] Oborudovanie
i opyt primeneniya gazopressovoi svarki. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1952. 114 p. [Microfilm] (MLRA 9:12)
(Gas welding and cutting)

DUL'KIN, V.Ya.; ULESOV, A.A.; ZVERINTSEVA, K.V., nauchnyy redaktor;
KRYUGER, Yu.V., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy
redaktor

[Submerged-melt welding of concrete reinforcements] Vannaiia svarka
armatury zhelezobetona, Moskva, Gos. izd-vo lit-ry po stroit. i
arkhitekture, 1956. 50 p. (MLRA 9:9)
(Welding) (Reinforced concrete)



KILIMOV, A.P.; ZVEGINTSEVA, L.N.

Formation of hydrogen bonds between the angular analogs of acridine
and proton donors. Izv. SO AN SSSR no.11 Ser.khim.nauk no.3:129-131
'63. (MIRA 17:3)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

L-19468-32

SPF(6)/EMT(1)/EPS FT-U DIA/WW/WW

ACCESSION NR: AT3002196

S/8961/63/01/00/0372/007

A 19468-32: The following article was received from Dr. J. R. Pendergast, Jr., of the University of Michigan:

"Effect of dilute sulfuric acid concentration on reactivities of 1,6-hexanediol diacetate

in the presence of various nucleophilic reagents. V. L. Lippert and R. A. M. van der Pol, *J. Org. Chem.*, 26, 2000 (1961).

The following additional article appeared in *J. Org. Chem.*, 26, 2000 (1961):

Abstract: The change in fluorescence and absorption spectra of 1,6-hexanediol diacetate in the presence of various nucleophilic reagents has been studied. It is found that the fluorescence intensity of the ester is decreased by the addition of dilute sulfuric acid, and the absorption maximum at 330 m μ is shifted to 340 m μ .

The decrease in fluorescence intensity is attributed to the formation of a complex between the ester and the reagent.

The absorption maximum at 330 m μ is shifted to 340 m μ because the ester is converted to a more polar form.

The fluorescence intensity of the ester is increased by the addition of dilute sulfuric acid, and the absorption maximum at 330 m μ is shifted to 340 m μ .

The increase in fluorescence intensity is attributed to the formation of a complex between the ester and the reagent.

The absorption maximum at 330 m μ is shifted to 340 m μ because the ester is converted to a more polar form.

The fluorescence intensity of the ester is increased by the addition of dilute sulfuric acid, and the absorption maximum at 330 m μ is shifted to 340 m μ .

The increase in fluorescence intensity is attributed to the formation of a complex between the ester and the reagent.

Card 1 of 2

KILIMOV, A.P.; ZVEGINTSEVA, L.N.

Effect of small quantities of water on the luminescence spectra
of 5,6-benzoquinoline solutions in p-dioxane. Opt. i spektr. 13
no.2:285-287 Ag '62. (MIRA 15:11)
(Benzoquinoline—Spectra) (Dioxane)

ZVEJSKA, M.

COUNTRY : Czechoslovakia H-5
CATEGORY :
ABSTRACT, JOUR. : RZKhim., No. 5 1960, No. 18309
AUTHOR : Zvejska, M., Sykora, M., and Ryška, A.
INST. : Not given
TITLE : Study on the Treatment of Sewage in a Socialist City
ORIG. PUB. : Vodni Hospod, No 7, 293-297 (1959)
ABSTRACT : The authors have studied the operation of the biochemical sewage treatment plant (trickling filters, methane tank) in Ostrava-Stalingrad which processes only municipal sewage. Data are given on the fluctuation in the discharge, chemical composition (dry residue, BOD, total oxygen demand, pH, alkalinity, total N, Cl⁻), and bacterial pollution of the sewage in the course of a typical day. The operation of the treatment plant is described.
M. Lapahin

CARD: 1/1

223

ZVEJSKA, M., SYKORA, M., RSYKA, A.

Investigation and treatment of sewage from socialist residential areas; p. 293.

VODNI HOSPODARSTVI. Czechoslovakia, No. 7, July 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, Sep 1959
Uncl.

MOCHALIN, Mikhail Panteleymonovich; ZVEKOV, Vladimir Afanasyevich;
AGOSHKOV, M.I., nauchnyy red.; ASTAKHOV, A.V., red. izd-va;
BOLDYREVA, Z.A., tekhn. red.

[Self-propelled equipment in mines] Samokhodnoe oborudovanie na
rudnikakh. Pod nauchn. red. M.I. Agoshkova. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po gornomu delu, 1961. 391 p. (MIRA 14:12)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining machinery)

BURTSEV, L.I., kand.tekhn.nauk; ZVEKOV, V.A., gornyy inzh.; LUNEV, I.N.,
gornyy inzh.

Flow sheets for chamber and pillar systems using self-propelled
equipment. Gor.zhur. no.10:3-11 O '64.

1. Institut gornogo dela im. A.A.Skochinskogo (for Zvekov).
2. Kombinat "Achpolimetall" (for Lunev). (MIRA 18:1)

BAZER, Ya.L., inzh.; KORSHUNOV, Ya.V., inzh.; ZVEKOV, VA.

PNB-3 self-propelled loader. Gor. zhur. no.6:55-56
Je '62.

(MIRA 15:11)

1. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy
institut ugol'nogo mashinostroyeniya (for Bazer, Korshunov);
2. Institut gornogo dela im. Skochinskogo, Moskva (for Zvekov).
(Mining machinery)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065630008-1

Economic and social conditions of the Nilgiri tribes. p. 236.
CESKOSLOVENKA ETHNOGRAFIE. Praha.
Vol. 3, no. 3, 1955

SOURCE: Monthly List of East European Accessions (EEAL), LC, Vol. 5,
No. 3, March 1956

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065630008-1"

GONCHARUK, M. [reviewer]; ZVELIDOVSKAYA, S.; SOLOV'YEV, P.; CHISTYAKOV, D.;
GUS'KOV, V. [authors].

"Builders discuss their own work." S.Zvelidovskaina, P.Solov'yev, D.Chistia-
kov, V.Gus'kov. Reviewed by M.Goncharuk. Sov.profsoinusz 1 no.3:89-91
N '53.

(Building) (Zvelidovskaya,S.) (Solov'yev,P.)
(MLRA 6:12)

DELYAGIN, N.N.; SHPINEL', V.S.; BRYUKHANOV, V.A.; EVENGLINSKIY, B.

Nuclear Zeeman effect in Sr¹¹⁹. Zhur. eksp. i teor. fiz. 39
no.3:894-896 S '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet.
(Magneto optics) (Tin) (Gamma rays)

DELYAGIN, N.N.; SHPINEL', V.S.; BRYUKHANOV, V.A.; ZVEREVSKII, B.

Hyperfine structure of gamma rays caused by quadrupole interaction
in the crystal lattice. Zhur. eksp. i teor. fiz. 39 no. 1:220-222
J1 '60. (MIRA 13:12)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.
(Gamma rays) (Crystal lattices)

BRYUKHANOV, V.A.; DELYAGIN, N.N.; ZVENGLINSKIY, B.; SHPINEL', V.S.

Energy shift of gamma-ray transition observed in the
resonance absorption of γ -quanta in crystals. Zhur.
tekhn. i teor. fiz. 40 no.2:713-714 P '61. (MIRA 14:7)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo
universiteta.

(Gamma rays)

BL972

S/056/60/059/003/058/058/XX
B006/B070

24.6210

AUTHORS:

Delyagin, N. N., Shpinel', V. S., Bryukhanov, V. A.
Zvenglinskiy, B.

TITLE:

Nuclear Zeeman Effect in Sn^{119} PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 3(9), pp. 894 - 895

TEXT: The present "Letter to the Editor" is the continuation of a previous paper (Ref.4) in which the authors reported on measurements of the dependence of resonance absorption of 23.8-kev gamma quanta emitted in the Sn^{119m} decay on the velocity of the source relative to the absorber. The authors have again carried out analogous measurements, but this time the absorber was placed in an external constant magnetic field. In this case, a Zeeman splitting of the absorption line took place, and a hyperfine splitting was observed in the spectrum, from which the magnetic moment of the excited 23.8 kev level of Sn^{119} could be determined. The

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Nuclear Zeeman Effect in Sn¹¹⁹S/056/60/035/003/058/058/XX
B006/B070

gamma source was a foil of white metallic tin (94% of Sn¹¹⁸) exposed to thermal neutron irradiation in a reactor. The absorber was SnNb₃ in which no quadrupole splitting of the 23.8 kev level takes place according to Ref. 4. Thus, the observed hyperfine splitting of the absorption line is only a consequence of the Zeeman effect. For the measurements, the source and the absorber were cooled to nitrogen temperature. The absorber (20 mg/cm² SnNb₃) was placed between the pole pieces of a magnet producing a constant magnetic field of 12,150 oe in the absorber, and the measurements were made with and without a magnetic field. The ground level is split in two and the excited one (3/2) in four sub-levels under the action of the field. 6 M1 transitions are possible between these. By changing the velocity of the source (positive and negative velocity) 12 lines must be observable. The shape of the absorption spectrum is dependent on the magnetic moments |μ₀| and |μ| of the ground and excited states of the Sn¹¹⁹ nucleus; on the relative signs of these moments; and on the quadrupole splitting Δ of the excited state. The results of the measurements are represented in a diagram.

Card 2/4

04972

Nuclear Zeeman Effect in Sn¹¹⁹S/C56/60/039/003/058/058/xx
B006/B070

(ordinate : counting rate; abscissa : velocity of the source and the corresponding energy shift). The distance between the hyperfine structure components was determined from the spectral measurement to be

$\Delta = (1.2 \pm 0.2) \cdot 10^{-7}$ ev. This is in good agreement with the value obtained in Ref. 4. From the positions of the three maxima, μ_0 was found to be $-(1.1 \pm 0.3)$ nuclear magnetons and the moment of the 23.8 kev level to be $\mu = + (1.9 \pm 0.4)$ nuclear magnetons. This value is considerably higher than that given by the single-particle model. A. I. Alikhanov and V. A. Lyubimov are mentioned. There are 1 figure and 5 references.

3 Soviet, 1 German, and 1 French.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: July 4, 1960

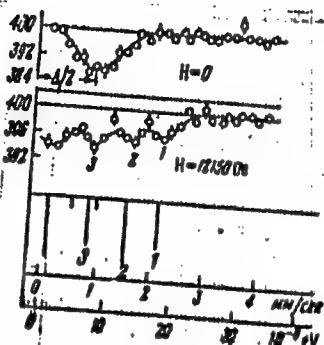
Card 3/4

"APPROVED FOR RELEASE: 09/01/2001

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B006/B070



Card 4/4

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065630008-1"

S/120/62/000/001/003/061
EO32/E514

AUTHORS: Bryukhanov, V.A., Delyagin, N.N., Zvenglinskiy, B.,
Sergeev, S.A. and Shpinel', V.S.

TITLE: Measurement of the resonance absorption spectra of
gamma-rays in crystals

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 23-28

TEXT: In a previous paper (Ref.5: Zh.eksperim. i teor.fiz.,
1960, 39, 220; Ibid 40, 713) the authors described an apparatus
which was used to investigate the M6ssbauer effect (23.8 kV
gamma-rays on Sn¹¹⁹ nuclei in crystals). In this apparatus the
relative velocity of the source and the absorber is varied
linearly with time with the aid of a mechanical device and the
intensity of the gamma-rays corresponding to different values of
this velocity is recorded with a multi-channel kicksorter and an
amplitude modulator working in synchronism with the device
producing the above velocity variation. In the present note the
authors give a more detailed description of the apparatus,
including both the mechanical and the electronic parts of it. A
typical absorption spectrum for a SnO₂ crystal (9 mg/cm² target

Card 1/2

Measurement of the resonance ...

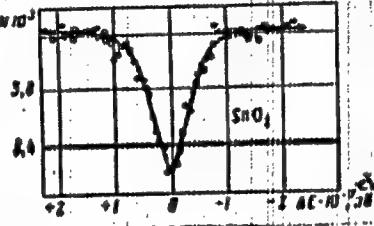
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E032/E514

and 6 mg/cm² source, both at room temperature) is shown in Fig. 6.
It is reported that the width of the 23.8 keV excited state of Sn¹¹⁹
is $(2.6 \pm 0.25) \times 10^{-6}$ eV. There are 6 figures.

ASSOCIATION: Institut yadernoy fiziki MGU
(Institute of Nuclear Physics MGU)

SUBMITTED: June 15, 1961

Fig.6



Card 2/2

ERYUKHANOV, V.A.; DELYAGIN, N.N.; ZVENGLINSKIY, B.; SERGEYEV, S.A.; SHPINEL',
V.S.

Measuring spectra of gamma-ray quanta resonance absorption in
crystals. Prib.i tekhn.eksp. 7 no.1:23-28 Ja.-F '62. (MIRA 15:3)

1. Institut yadernay fiziki Moskovskogo gosudarstvennogo universiteta.
(Gamma-ray spectrometry)

82612

24.6520

S/056/60/039/001/028/029
B006/B063AUTHORS: Delyagin, N. N., Shpinel', V. S., Bryukhanov, V. A.,
Zvenginskij, B.TITLE: The Hyperfine Structure of γ -Rays, 19 Produced by Quadrupole
Interaction in the Crystal Lattice γ PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 1(7), pp. 220-222

TEXT: In the introduction to this article the authors describe several publications dealing with the above-mentioned subject. A. I. Alikhanov and V. A. Lyubimov (Ref. 5) studied the resonance absorption of 23.8-kev gamma quanta of Sn^{119} nuclei. The authors themselves studied the hyperfine structure of the 23.8-kev level of this nucleus. The hyperfine structure is due to the interaction between the quadrupole moment of the nucleus in the excited state and the internal electric field of the tin crystal. Metallic Sn^{119m} served as source, which moved relative to the absorber. Contrary to similar experiments, the source used here

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The Hyperfine Structure of γ -Rays, Produced
by Quadrupole Interaction in the Crystal
Lattice

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B006/B063

underwent linear acceleration within certain limits. Measurements were carried out at the temperatures of liquid nitrogen. The X-radiation of tin (26 kev) was almost completely absorbed by a palladium film 0.06 mm thick. The γ -quanta passing through this filter were recorded by means of an NaI(Tl) crystal. The pulses coming from the single-channel pulse-height analyzer were linearly phase-modulated in a radio device, viz. simultaneously with the changes in the source velocity. The modulated pulses were fed into a 100-channel pulse-height analyzer of the type AM-100 (AI-100). Each channel corresponded to a certain velocity of the source. The measurements were made with two absorbers containing Sn¹¹⁹, namely, metallic tin and SnNb₃ alloy. The dependence of resonance absorption on the velocity of the source for a tin specimen 20 mg/cm² thick is shown in the upper part of the Fig. on p. 221. The curve has three peaks at 0 and ± 1.46 mm/sec (velocity of the source). This corresponds to a hyperfine structure of the 23.8-kev level, and is explained by the interaction between the quadrupole moment of the nucleus in the excited state (spin 3/2) and the electric field of the crystal.

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The Hyperfine Structure of γ -Rays, Produced
by Quadrupole Interaction in the Crystal
Lattice

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This interpretation is confirmed by measurements with the SnNb_3 absorber (30 mg/cm^2), which are illustrated in the lower part of the Fig. The spacing Δ of the components of the hyperfine structure was $\Delta = (eQ/2) \partial^2 V / \partial z^2 = (1.15 \pm 0.25) \cdot 10^{-7} \text{ ev}$. There are 1 figure and 6 references: 2 Soviet, 2 German, and 2 US.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo
universiteta (Institute of Nuclear Physics of Moscow
State University)

SUBMITTED: May 25, 1960

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Card 3/3

ZVENIGORODSKAYA, A.Y.

CA

Absorption of chlorine and the bactericidal effect of chlorinating water in the process of its self-purification. N. M. Vaksberg and A. Ya. Zvenigorskaya. Vodnoye Sistem. Tzkh. 1959, No. 11-12, 30-3; Khim. Referat. Zhur. 1960, No. 8, 96.—Investigations under lab. conditions indicate that the bactericidal effect of chlorination is considerable in the 1st stage of self-purification and that the decrease in the absorption of Cl is very small. The sharp rise of Cl absorption in the 2nd stage is characterized by the increase of nitrates. To overcome this, the amt. of Cl should be increased. In the final stage the oxidation of nitrites to nitrates is accompanied by a sharp drop of the Cl absorption of water. W. R. Heath

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ISBDN 178181818

147080 02

183080 MAP OPF 395

0211131700

62-17000

0211131700

"ZVENIGORODSKAYA, A. Ya. *Znachek i Sistem* (Notes and Methods) No. 7, 1940.

The influence of dechlorination on the bacteriological investigation of water. A. Ya. Zvenigorskaya and G. A. Mamilova. *Vodovedeniye i Sanitariya TVD*, [S.], No. 7, 37-40 (1940). — To eliminate the influence of Cl⁻ on the bacteria prior to the analysis, the U. S. practice of Na₂O₂ addition was found satisfactory. Eighty-four experiments were conducted. The importance of immediate dechlorination was definitely established. D. Gutoff

AS-618 METALLURGICAL LITERATURE CLASSIFICATION

Geography & Geology

Methods for determination of cobalt and manganese;
Moskva, Gos. izd-vo geol. lit-ry, 1946.
(Metody issledovaniia poleznykh iskopaemykh, vyp. 12)

Monthly List of Russian Accessions, Library of Congress,
May, 1952. UNCLASSIFIED.

FROLOV, A.G.; KOZLOVSKIY, S.I.; MELAMED, Z.M.; GERCHIKOV, I.S.; UVAROV, S.G.;
ZVEHIGORODSKAYA, G.V.; KOSTAN'YAN, A.Ya., red.izd-va;
SHEVCHENKO, G.N., tekhn. red.; PRUSAKOVA, T.A., tekhn. red.

[Principles for the improvement of industrial complexes on
mine surfaces] Osnovy sovershenstvovaniia tekhnologicheskikh
kompleksov poverkhnosti shakht. [By] A.G.Frolov i dr. Mo-
skva, Izd-vo AN SSSR, 1963. 135 p. (MIRA 16:12)

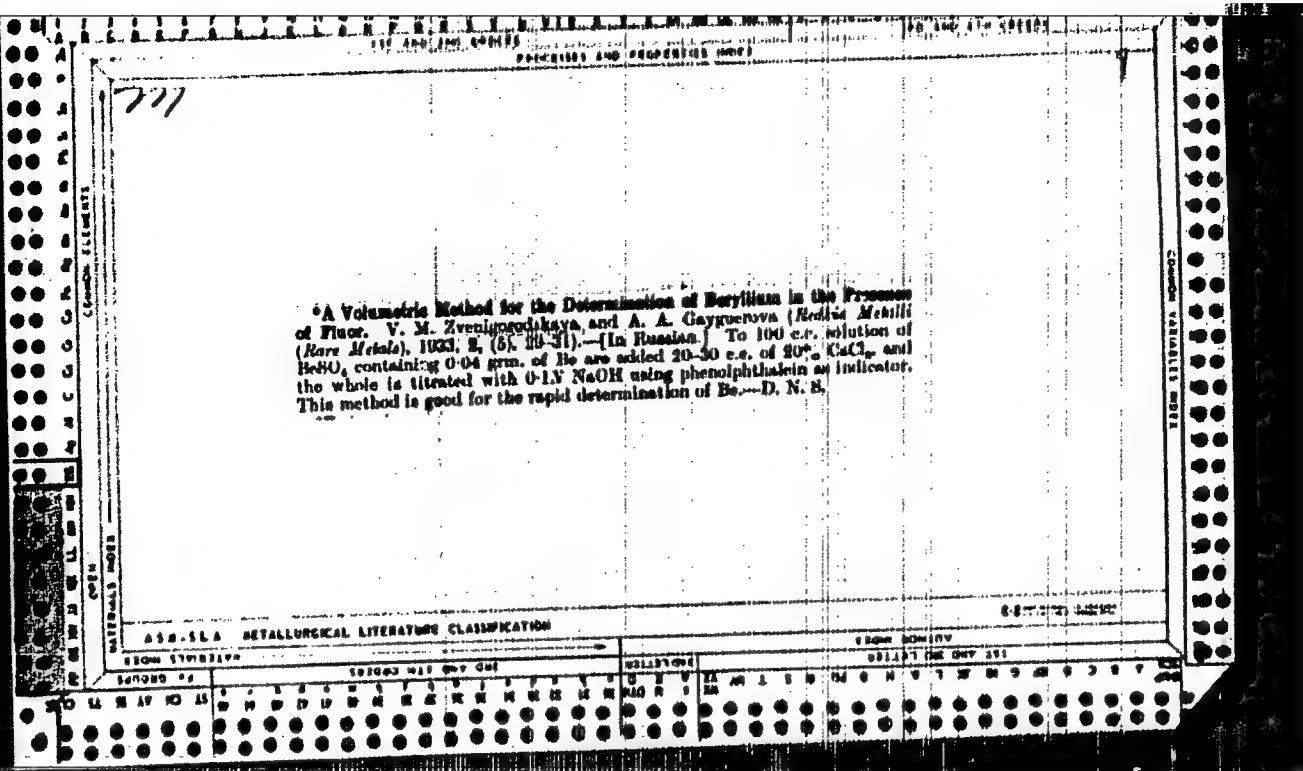
1. Moscow. Institut gornogo dela.
(Mine buildings)

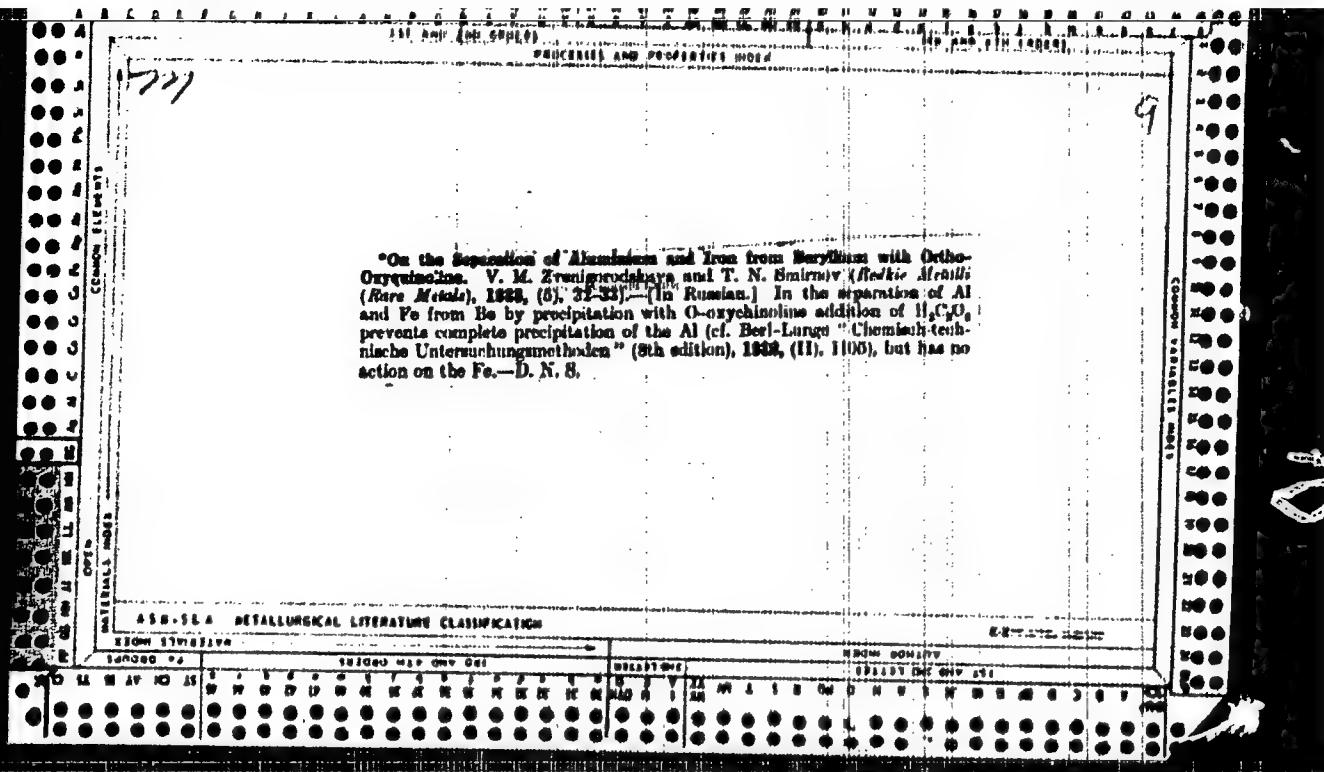
ZVENIGORODSKIY, Iosif Solomonovich; FROLOV, Yury Aleksandrovich;
KAYETANOVICH, M.M., red.

[Steel wires and busbars in electrical networks with
ratings up to 1,000 volts] Stal'nye provoda i shiny v
elektricheskikh setiakh do 1 000 v. Moskva, Izd-vo
"Energia," 1964. 55 p. (Biblioteka elektromontera,
no.125) (MIRA 17:6)

ZVENIGORODSKAYA, M.Ya; LEVIN, F.D., redaktor; KALASHENIKOV, V.P., tekhnicheskiy
redaktor

[Where to study; a manual for students entering higher and secondary schools for special studies (technical and vocational) in Moscow and Moscow Province in 1956] Kuda polti uchit'sia; spravochnik dlia postupayushchikh v vyssie, srednie spetsial'nye uchebnye zavedeniya (tekhnikumy, uchilishcha, shkoly) i tekhnicheskie uchilishcha Moskvay i Moskovskoi oblasti v 1956 godu. God izd. 10-1. [Moskva] Izd-vo "Moskovskaya pravda." 1956. 214 p. (MLRA 9:10)
(Moscow Province--Technical education--Directories)



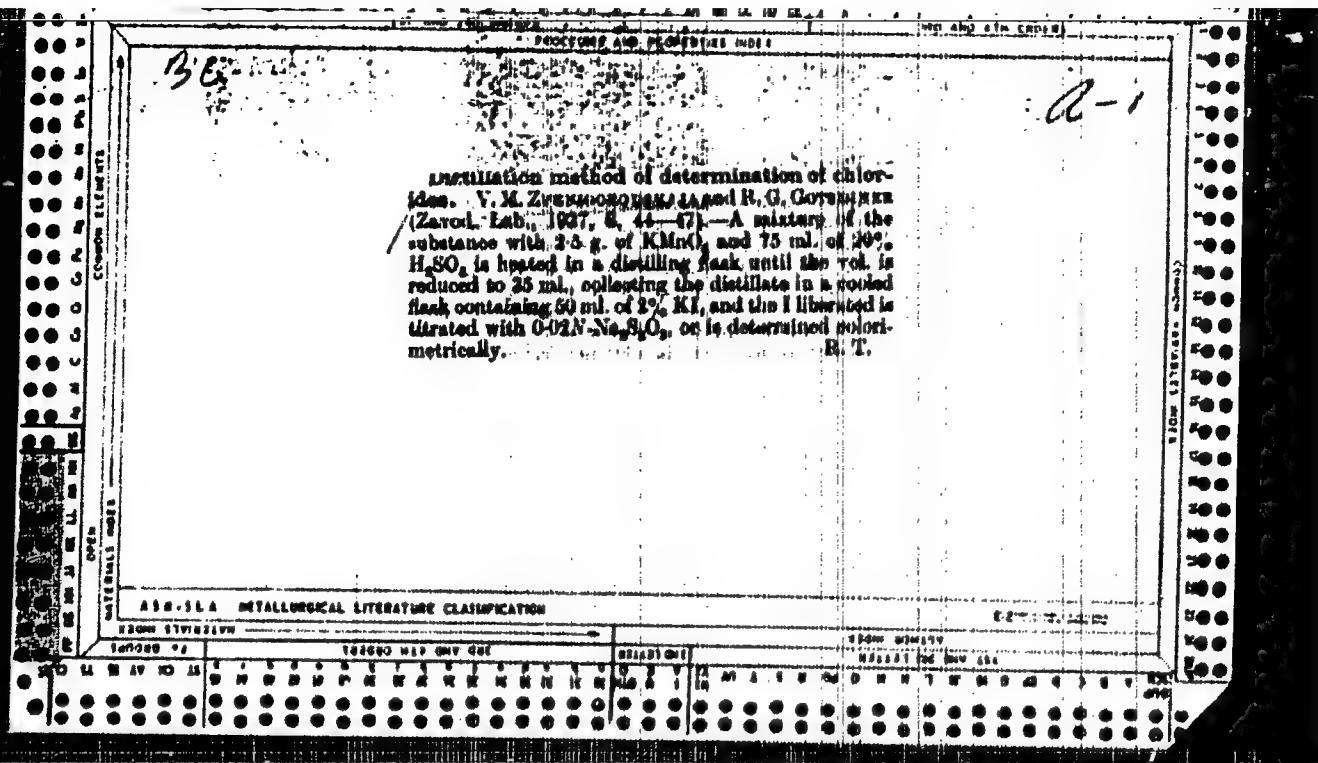


CA

7

Separation of manganese on the mercury cathode.
M. Zvenigorodskaya, Zavodskoye Lab. 4, 103-26(1938)
cf. C. A. 32, 3027."Only a partial sepn. of Mn on the
Hg cathode took place by the electrolysis of 0.1 N KMnO₄,
reduced with SO₂, in the Cain cell (cf. C. A. 3, 2791),
without and with the gradual addn. of a reducing agent
(hydrazine sulfate).
Chas. Blane

ASA-SLA: METALLURGICAL LITERATURE CLASSIFICATION



Determination of chloride in silicates by the distillation method. V. M. Zvenigorodskaya and R. G. Gostishchev. *Zapiski po Lab.*, 8, 268-274 (1927); cf. *C. A.*, 31, 4019. Cl⁻ is detd. in silicates by fusing a sample with Na₂CO₃ and decomposing the melt with excess of dil. H₂SO₄ and KMnO₄. The Cl⁻ is absorbed in 2% KI and the soln. is titrated with Na₂SO₃. Chas. Blanck.

ASA-ISA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065630008-1"

Ca

Precipitation of aluminum with cupferron. M. Averkievskaya and Yu. A. Chernikov. Zavodskoye Lab. 9, 1098-90(1940).--The following method is suggested for detn. of Al in tungstate acid: Dissolve a 10 g. sample in excess of concd. Na₂CO₃, add some 8-hydroxyquinoline and filter. Ignite the ppt. and fuse with pyrosulfate and leach with water. Ppt. the Fe from the acidic soln. with cupferron, filter and use the filtrate to ppt. Al with cupferron by suitably raising the pH. To ppt. a tenth of a mg. of Al the filtrate should not exceed 100 ml. Ignite the ppt. and weigh or fuse and det. evolved ammonia with aluminum. Al in (NH₄)₂MoO₄ is detd. in the same way except that the sesquioxides are sepd. from the Mo in an ammoniacal instead of in acidic soln. B. R. K.

AMERICAN METALLURGICAL LITERATURE CLASSIFICATION

CA

Colorimetric determination of cobalt by the pyridine-thiocyanate method. V. M. Zverengenitskaya. *Zhurnal Lab. II. (022)-7(1947) 3*. A modification of the described colorimetric determination of Co by the HCl-CuCN method in Mn²⁺O. The quantities of CuCN and Mn²⁺O required are reduced to 1/3 of the usual quantities. Add 4-5 ml. of HCl (d. 1.10) and 1-2 ml. of NaSCN (d. 1.41) to 0.1 g. of a finely ground sample containing up to 0.5% of Co or to 0.1 g. containing 0.5-1.0% of Co in a 30-ml. beaker, cover with a watch glass, heat to boiling, evap. until a residue appears, add HCl (d. 1.10) twice in 0.5-ml. portions, evap. to dryness each time, monitor the dry residue with 3-4 drops of HCl (d. 1.10), add 3-4 ml. of water, cover with a watch glass, heat to dissolve the salts, evap. to 1-2 ml. and, add 1 g. of NH₄Cl, neutralize by adding NH₄OH (1-2 drops with const. shaking until a Fe(OH)₂ turbidity appears, dissolve it with 1-2 drops of HCl (d. 1.10), add 1-2 crystals (approx. 0.1 g.) of NH₄CNS (the addition requires a blank-and-color), and add slowly dropwise borax 10% Na₂SiO₃ until the color disappears (in the presence of considerable quantities of Ni or Cu in the sample the solution acquires a faintly bluish or greenish shade; in the absence of Ni and Cu the solution is yellowish, nearly colorless, if the ore contains no dark reddish iron, in acids). Then add 1 g. of NH₄CNS (the salt, becomes black red) and less than 1/3 of the quantity of SdO²⁺ added previously, transfer the soln. with the ppt. to a cylinder for color measurement, rinse the beaker carefully with water and, if the vol. reaches 10 ml., wash the beaker walls (wash with Mn²⁺O), add the liquid to the cylinder, add Mn²⁺O to 20 ml., shake, let the ppt. settle, and det. Co in the solution by comparing with standard solns. in cylinders of the same diam. The dependability of the method was verified under field conditions. Twelve references.

W. R. Henn

(see back for instructions)

M

Potentiometric Determination of Cobalt in the Presence of Manganese.
 V. M. Zverinogolovka [Zerkel, Lab., 1945, 11, 1010-1022; U. S.S.R., 1946, 40, 7002]. (In Russian). A method for the potentiometric determination of Co in the presence of Mn by means of $\text{Pc}(\text{CN})_6^{4-}$ is proposed. Dissolve 0.15-1.0 g. of the sample (the Mn content in the sample should not exceed 0.1 g.) by heating in 10-20 ml. of HCl (density 1.19), add 3-5 ml. of HNO₃ (density 1.4), boil to remove N oxide, evaporate until a precipitate is formed, and dissolve the precipitate in water, with addition of several ml. of HCl. If Mn is to be determined, filter the precipitate insoluble in HCl, wash several times with hot water, decompose in a Pt crucible, add 3-5 ml. of HCl and 2-3 ml. of H₂O₂ (1:1), and evaporate until MnO_2 vapours appear; add several ml. of distilled water to the residue in the crucible, boil, and combine the solution obtained with the main filtrate. Evaporate the filtrate to a small vol., cool, transfer it to a 200-250 ml. beaker whose inner walls are covered with a thin layer of paraffin, add 2-3 g. of NH₄OH, neutralize by adding NH₄OH drop wise with const. stirring until Fe(OH)_3 and Al(OH)_3 appear, add 15 ml. of 4N H₂O₂, or 10 ml. of 4N HCl, and the solution to a 10°C., add cold water to 100-110 ml., add slowly 6-6.5 g. of NH₄Y by mixing with an electric stirrer, and titrate with 0.05 or 0.1N-MnO₄ (depending on the concentration of Mn) until an abrupt jump in the potential is obtained. One ml. of 0.1N-MnO₄ is equal to 4.354 mg. of Mn. Add 10-15 g. of NH₄T to the solution containing Mn in the form of Mn^{2+} and Co as Co^{2+} , and mix until dissolved. To another 400 ml. beaker containing 160-180 ml. of 10-18% NH₄OH containing 15 g. of citrate, add a known vol. of 0.1 or 0.05N- $\text{Pc}(\text{CN})_6^{4-}$ (a slight excess with respect to Co) and slowly, with const. stirring, add the acid solution (titrated with MnO₄). Wash the beaker from the acid solution twice with 20-30 ml. of NH₄OH containing 1-1.5 g. of the citrate salt, combine the wash liquids with the solution, and titrate the excess $\text{Pc}(\text{CN})_6^{4-}$ with the salt solution containing 5% of NH₄ salts until an abrupt

ASQ-5A METALLURGICAL LITERATURE CLASSIFICATION

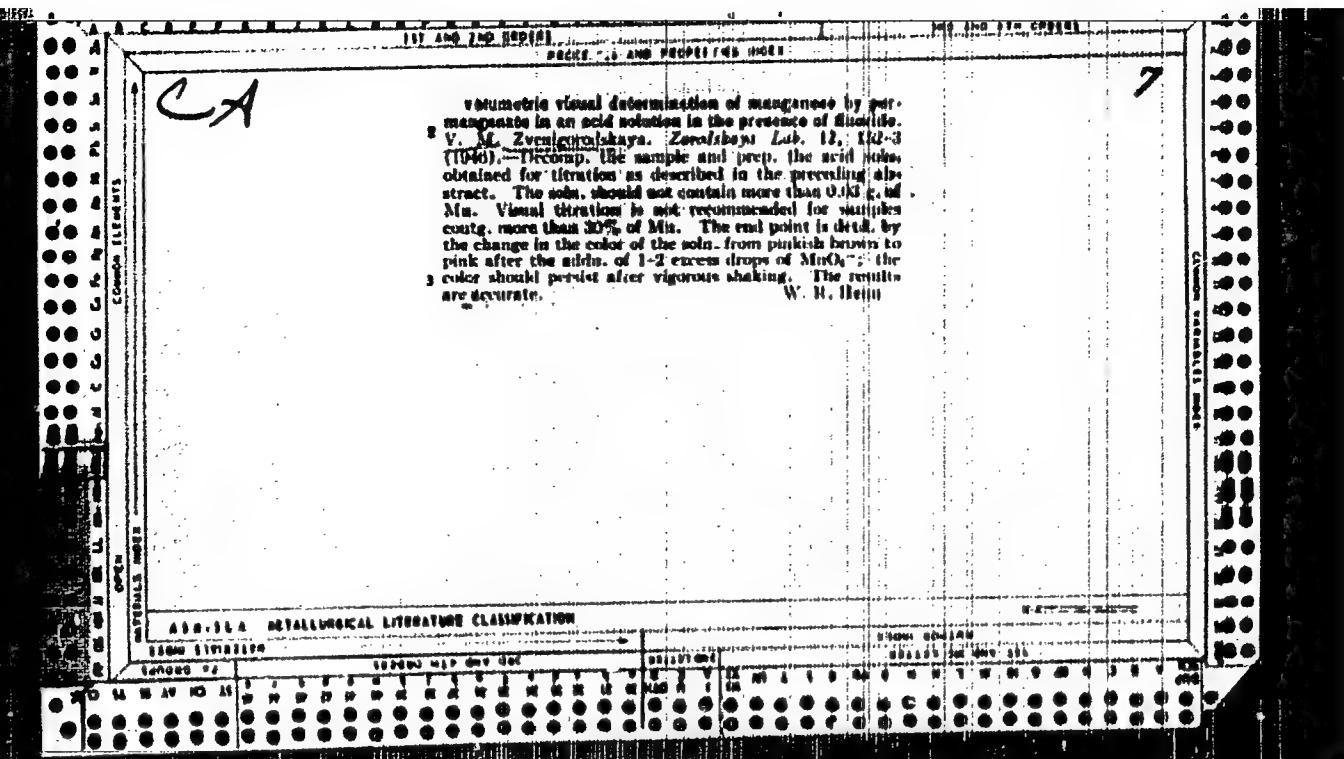
Potentiometric determination of manganese by permanganate in acid solution in the presence of fluorides in ores and slags. V. M. Zvezdina-Skaya and N. G. Gotochilina. *Zavodskaya Lab.*, 11, 142-151 (1955).—In the presence of fluoride, Mn^{++} can be titrated with K_2MnO_4 potentiometrically by the following reaction: $4 Mn^{++} + MnO_4^- + 8 H^+ = 5 Mn^{+++} + 4 H_2O$. Detailed directions are given for suitable treatment of ores contg. MnO_2 of silicates, and of oxide ores for the prepn. of a suitable soln. contg. all Mn . To the soln. add 2-3 g. of NH_4Cl and neutralize with NH_4OH . Add 15 ml. of 4 N HCl , cool to below 10° , add 8 g. NH_4P and titrate the cold soln. with 0.1 N K_2MnO_4 while stirring mechanically. Cu and Mg, as well as silice, have an unfavorable effect, which is explained. W. R. Henn.

AM-SEA METALLURGICAL LITERATURE CLASSIFICATION

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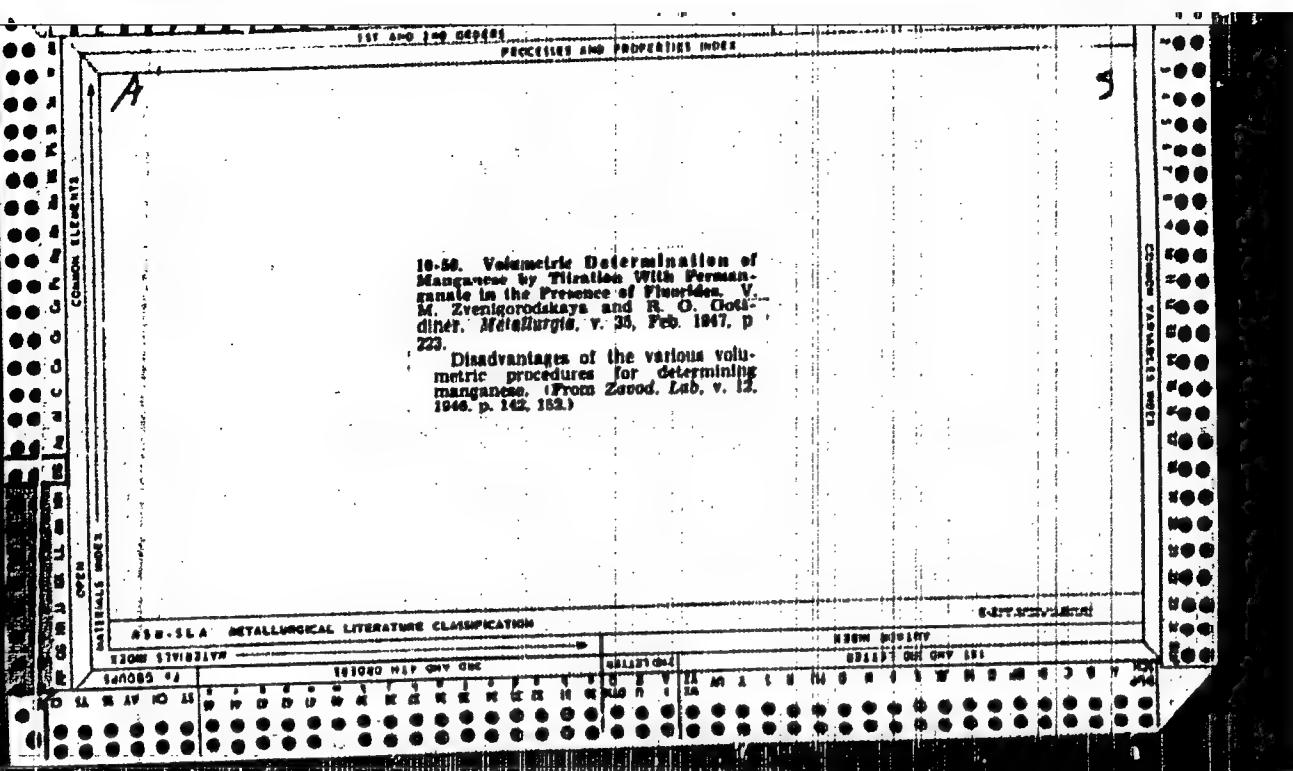
APPROVED FOR RELEASE: 09/01/2001

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M

Volumetric visual Determination of Manganese by Permanganate in an Acid Solution in the Presence of Fluoride. V.M. Zvenigorodskaya (Izvod. Lab., 1946, 12, 162-163; C. Aus., 1948 40, 5682; and English summary) Metallurgia, 1947, 35, (208), 223). --(in Russian). Decompose the sample and prepare the acid solution obtained for titration as described in the preceding abstract. The solution should contain not more than 0.03g. of Mn. Visual titration is not recommended for samples containing more than 30% of Mn. The end-point is determined by the change in the colour of the solution from pinkish-brown to pink after the addition of 1-2 excess drops of MnO_4^- ; the colour should persist after vigorous shaking. The results are accurate.

ASIN 114 METALLURGICAL LITERATURE CLASSIFICATION



ZVENIGORODSKAYA, V M

PHASE I BOOK EXPLOITATION 846

U.S.S.R. Ministerstvo geologii i okhrany nedr

Metody opredeleniya radioaktivnykh elementov v mineral'nom syr'ye
(Methods of Determining Radioactive Elements in Mineral Raw
Materials) Moscow, Gosgeoltekhnizdat, 1958. 68 p. 3,000 copies
printed.

Compilers: Sochevanov, V.G. and Titov, V.I.; Ed.: Krasnova, N.E.
Tech. Ed.: Averkiyeva, T.A.

PURPOSE: This book is for those engaged in geochemical prospecting
for radioactive ores.

COVERAGE: The chemical determination of radioactive substances in min-
erals and rock formations is described in this publication. Chemical
treatment of materials in preparation for radiometric analysis is
also included. The proposed methods are considered to be the most

Card 1/4

Methods of Determining Radioactive Elements (Cont.) 846

reliable for geochemical research. Methods are presented in the form of separate procedure instructions with the inclusion of: principle of the method, elimination of interfering factors, application limits, necessary reagents, procedure of analysis. Specifications for high purity reagents are given whenever necessary. There is a bibliography with 26 references, 17 of which are Soviet, 4 English, 3 German, 1 Czech, and 1 Swiss.

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Card 4/4

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SOV/75-14-4-13/30

5(2)
AUTHORS:

Zvenigorodskaya, V. M., R yanicheva, M. I.

TITLE:

Determination of Uranium by the Fluoride Method With Titrimetric Conclusion

PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 4,
pp 457 - 462 (USSR)

ABSTRACT:

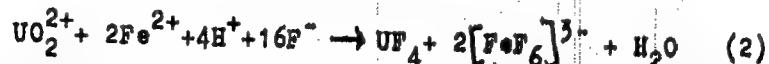
In the presence of hydrofluoric acid, bivalent iron in a sulfuric-acid solution reduces hexavalent uranium to the quadrivalent state. This reaction proceeds quantitatively. The redox potentials of the systems U^{VI}/U^{IV} and Fe^{III}/Fe^{II} change in dependence on the concentration of hydrofluoric acid. With an increasing concentration of hydrofluoric acid, the potential of the system U^{VI}/U^{IV} increases strongly, while the potential of the system Fe^{III}/Fe^{II} decreases. With a concentration of hydrofluoric acid of 2-3 mols/l, the potential of the system Fe^{III}/Fe^{II} is more negative by 0.17 to 0.20 v than the potential of the system U^{VI}/U^{IV} . This difference permits the follow-

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Determination of Uranium by the Fluoride Method With
Titrimetric Conclusion

SOV/75-14-4-13/30

ing reaction:



This reaction proceeds in a very wide pH-range, beginning with pH 4-5. Based on this reaction, the authors worked out two rapid determination methods for uranium. One of them has been already published (Ref 6), the second is the subject of this paper. The UF_4^- , which forms during the reaction (2), is readily soluble in hydrofluoric acid and can therefore not be used for the quantitative determination of uranium (Ref 8). The investigations of the authors showed that of the difluorides or quadrivalent uranium with the alkali metals only the difluoride with sodium is difficultly soluble in a sufficient degree for a quantitative determination of uranium. This compound does not only precipitate almost quantitatively from the acetate-buffered solution, but also from the mineral-acid medium. Table 1 shows results of the precipitation of U(IV) as difluoride with ammonium and with sodium in an acetate-buffered and a mineral-acid solution in the presence of hydro-

Card 2/4

Determination of Uranium by the Fluoride Method With
Titrimetric Conclusion

SOV/75-14-4-13/30

fluoric acid. For the determination of uranium in mineral raw materials by the fluoride method, the authors use the precipitation of uranium as di-fluoride NaUF_5 from a sulfuric-acid solution. The precipitate is washed after filtering up to the release of iron, and subsequently titrated with an ammonium-vanadate solution. The authors also investigated the influence exerted by foreign ions on this determination method, and established that the disturbing influence of iron, vanadium, molybdenum, and titanium can be eliminated. The results of the determination of uranium in synthetic mixtures which contained these foreign ions are shown in tables 2 and 3. Table 4 shows a comparison of the results of the determination of uranium by the fluoride method and the hydro-sulfite method (according to reference 5). The course of analysis for the determination of 3 to 60% of uranium in the presence of iron, vanadium, molybdenum, and titanium is described in the paper very accurately. All results obtained by this method are too low by 0.3-0.35 mg of uranium. This

Card 3/4

Determination of Uranium by the Fluoride Method With
Titrimetric Conclusion

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error explained by the solubility of NaUF_3 during the precipitation and washing of the precipitate. This constant error can be eliminated by a corresponding empirical titer of the vanadate solution. The investigation under review was carried out between 1948 and 1952. There are 2 figures, 4 tables, and 12 references, 8 of which are Soviet.

SUBMITTED: June 9, 1958

Card 4/4

PETROSYAN, Ye.A.; ZVENIGORODSKAYA, V.P.

Studies on the Vi-antigen of the bacteria of the enteric group.
Report No.4: Specific substance in the Vi-antigen in bacteria of
the enteric group. Zhur.mikrobiol.epid.i immun. 31 no.11:142-149
N '60. (MIRA 14:6)

1. Iz Moskovskogo instituta vaktain i syvorotok imeni Mechnikova.
(INTESTINES—MICROBIOLOGY) (ANTIGENS AND ANTIBODIES)

PETROSYAN, Ye.A.; ZVENIGORODSKAYA, V.P.

Study of the Vi-antigen of bacteria of the enteric group. Report No. 3: Chemical structure of the Vi-antigen of bacteria of the enteric group obtained by means of trichloroacetic acid extraction. Zhur. mikrobiol. epid i immun. 31 no. 6:81-87 Je '60. (MIRA 13:8)

1. Iz Moskovskogo instituta vaktsin i sывороток им. Нечникова.
(ESCHERICHIA) (SALMONELLA TYPHOSEA)
(ANTIGENS AND ANTIBODIES)

USSR/Microbiology - Microbes Pathogenic for Man and Animals.
Bacteria. Bacteria of the Intestinal Group.

Abs Jour : Ref Zhur Biol., No 22, 1958, 99390 F
Author : Petrosyan, Ye.A., Zvenigorodskaya, V.P.
Inst : -
Title : Study of the Antigen of Bacteria of the Intestinal Group. Report 1. Immunological Study of Vi-Antigen of Typhoid Bacteria.
Orig Pub : Zh. mikrobiol., epidemiol. i imunobiologii, 1957, No 8, 95-98

Abstract : The Vi-antigen was obtained from the strain Vi-1 Datsnagar (free from o-antigen?) either by extraction with trichloroacetic acid, or by splitting with pancreatin followed by fractionation with acetone under cooling (a culture was grown on a broth medium with aeration). In both cases the antigens were related by the content of total nitrogen and reducing substances; however, in the first

Card 1/2

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PETROVIAN, Ye.A.; ZVENIGORODSKAYA, V.P.

Studies on antigen of bacteria of the enteric group. Report No.1;
Immunichemical study on the Vi-antigen of *Salmonella typhosa*. Zhur.
mikrobiol.epid. i immun. 28 no.8:95-98 Ag '57. (MIRA 11:2)

1. Iz Moskovskogo instituta baktsin i sывороток имени Мечникова,
(*SALMONELLA TYPHOSA*, immunology
Vi antigen, immunochem. (Rus))

PETROSYAN, Ye.A.; ZVENIGORODSKAYA, V.P.

Study on the Vi-antigen of enteric bacteria. Report No.2: Immunochemical study of the Vi-antigen of *B. coli* and *S. ballerup*. Zhur. mikrobiol. epid. i immun. 28 no.10:114-119 O '57. (MIRA 10:12)

1. Iz Moskovskogo instituta vektsin i syyvorotok imeni Mechnikova.
(*ESCHERICHIA COLI*, immunology,
Vi-antigen, immunochem. aspects (Rus))
(*SALMONELLA*, immunology,
Ballerup, Vi-antigen, immunochem. aspects (Rus))

ZVENINGORODSKIY, A.M.

USSR/Engineering - Hydraulics, Methods

Nov 51

"Experiment on Desaturation of Concrete in Hydraulic Engineering Construction,"
O. A. Bershberg, cand Tech Sci, V. V. Skvortsov, A. M. Zvenigorodskiy, Engineers.
"Gidrotekh Stroi" No 11, pp 14-18

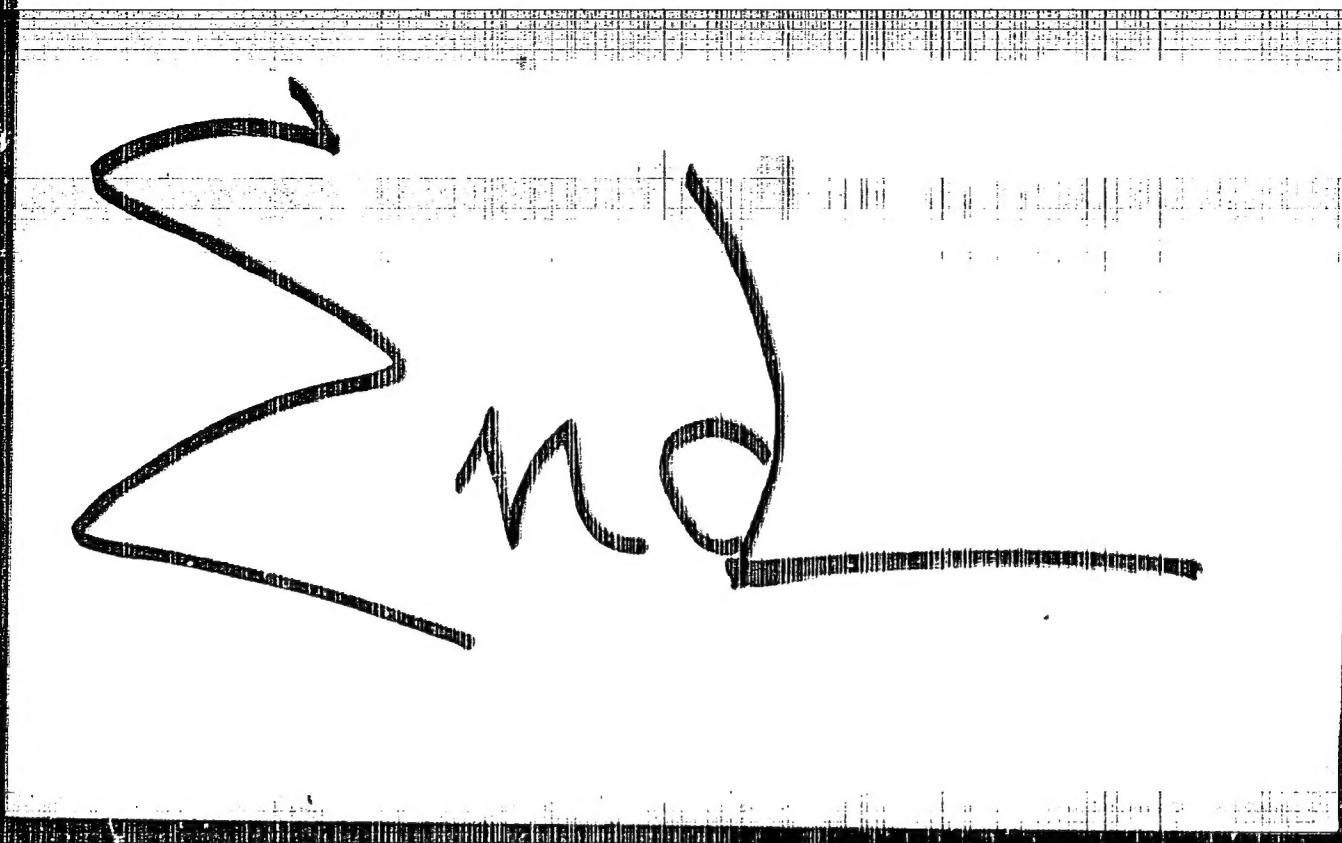
In 1950, for 1st time in Soviet Union, desaturation of concrete
was realized on industrial scale under supervision of TsNIPIL (Cen Sci Res
Trust. Discusses methods for desaturation on surface and in layers of concrete
blocks and describes equipment. Describes testing for frost resistance and presents
comparative results.

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Zubov, I.V.
to
Zvenigorodskiy,
A.M.

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